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(1971, chapter eleven,  
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equations occurred late  
1996, where not one of  
the above mentioned  
texts was ever  
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Within mathematics, a  
differential equation



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refers to an equation that brings in association one or more functions and their derivatives. In applications, the functions usually denote the physical quantities whereas the derivatives denote their rates of alteration, and the differential equation represents a relationship between the two.

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We present examples where differential equations are widely applied to model natural phenomena, engineering systems and many other situations. Application 1 : Exponential Growth - Population Let  $P(t)$  be a quantity that increases with time  $t$  and the rate of increase is proportional to the same quantity  $P$

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as follows  $dP / dt = kP$

**Applications of  
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The conference  
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decays and much  
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many things in the  
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three. application of  
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conclusion. 4.2  
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references. chapter  
one introduction

**Simultaneous**  
**Differential Equation**  
**and its Application**

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This is the 2nd part of the article on a few applications of Fourier Series in solving differential

equations. All the problems are taken from the edx Course: MITx - 18.03Fx:

Differential Equations Fourier Series and Partial Differential Equations. The article will be posted in two parts (two separate blongs) We shall see

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how to solve the  
following ODEs/ PDEs  
using Fourier series:

## **Fourier Series and Differential Equations with some**

...

Ordinary differential  
equations applications  
in real life are used to  
calculate the  
movement or flow of  
electricity, motion of  
an object to and fro  
like a pendulum, to  
explain

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thermodynamics  
concepts. Also, in  
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medical terms, they  
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are used to check the  
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growth of diseases in  
graphical  
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methods so that it can be used to study differential equations with multiple delays. As an application, we study the stability and bifurcation of a scalar equation with two delays modeling compound optical resonators.

**On the zeros of  
transcendental  
functions with  
applications ...**

Transmutations,  
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with Applications to  
Mathematical Physics  
connects difficult  
problems with similar  
more simple ones.

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